INDEX TO SCIENTIFIC NAMES
HERPETOLOGICA
Volume 38 December 1982

Abies grandis 469
Abronia 355–357, 359, 360
aurita 356, 361
bogerti 356, 360
chiszari 355, 356, 360, 361
deppei 356, 359–361
fuscolabialis 356, 360, 361
lythrochila 359, 361
matudai 356, 360
mitchelli (n. sp.) 355–357, 359–361
mixteca 356, 359–361
oaxacae 355, 356, 359, 360
reidi 356, 357, 360
taeniata 355
taeniata graminea 361
taeniata taeniata 356, 360, 361
vasconcelosi 359
Acantophis antarcticus 15
Aclys 349, 355
Acris 507
crepitans 319
Adelotus brevis 319
Adenomera andreae 319
Aechmea magdalenae 450
Aeluroscalabotes 354
Afrixalus fornasini 315, 319
sp. 319
Afroedura 354
Agalychnis callidryas 319
Agama agama 76, 87
Agamura 354
Agkistrodon 16, 71
piscivorus 16–18, 20, 22, 23
rhodostoma 15
Aglyptodactylus madagascariensis 320
Ailuronyx 349, 354
Albanerpeton 533
Alligator 338
mississippiensis 23, 44, 53, 138
Alnus tenuifolia 469
Alsodes nodosus 319
Alsophylax 354
Alytes cisternasii 319
obstetricans 319
Amblyrhynchus 175, 309
cristatus 310
Ambystoma 323, 333, 475, 535
annulatum 333
gracile 333
jeffersonianum 333, 483
laterale 333, 336
macrodactylum 333
maculatum 333, 483
opacum 483
texanum 333, 335, 475–478, 480, 482–484
tigrinum 483
Ambystomichnus 535
Amolops himalayanus 319
jerboa 319
Amphitriton 535
Amphiuma 534
norica 537
Anarbylus 354
Andrias 533
Aneides 269, 535
Anguis fragilis 86
Anhydrophryne 315
rattrayi 319
Anisolepis 309
grilli 173, 174
undulatus 173, 174, 310
Anniella 249
Anolis 36, 37, 40–42, 76, 85, 86, 89, 104, 115, 171, 172, 176, 238, 239, 244, 309, 497
acutus 499
aeneus 499
allisoni 499
arenteolus 499
auratus 499
bartschi 499
bimaculatus 499
biporcatus 499
blanquillanus 499
bonairensis 499
capito 499
carolinensis 27, 28, 36–38, 76, 77, 80–86, 88–90, 111, 115, 117, 119, 137, 138, 429, 499
chlorocyanus 499
chrysolepis 499
coelestinus 499
conspersus 499
cooki 499
cristatellus 499
cupreus 499
cuvieri 499
cybotes 499
distichus 499
equestris 310, 499
eugenegrahami 310
evermanni 499
ferreus 499
fuscoauratus 500
garmani 500
gingivinus 500
gracilipes 500
grahami 500
gundlachi 500
hendersoni 499

INDEX TO SCIENTIFIC NAMES
HERPETOLOGICA
Volume 38 December 1982

Abies grandis 469
Abronia 355–357, 359, 360
aurita 356, 361
bogerti 356, 360
chiszari 355, 356, 360, 361
deppei 356, 359–361
fuscolabialis 356, 360, 361
lythrochila 359, 361
matudai 356, 360
mitchelli (n. sp.) 355–357, 359–361
mixteca 356, 359–361
oaxacae 355, 356, 359, 360
reidi 356, 357, 360
taeniata 355
taeniata graminea 361
taeniata taeniata 356, 360, 361
vasconcelosi 359
Acantophis antarcticus 15
Aclys 349, 355
Acris 507
crepitans 319
Adelotus brevis 319
Adenomera andreae 319
Aechmea magdalenae 450
Aeluroscalabotes 354
Afrixalus fornasini 315, 319
sp. 319
Afroedura 354
Agalychnis callidryas 319
Agama agama 76, 87
Agamura 354
Agkistrodon 16, 71
piscivorus 16–18, 20, 22, 23
rhodostoma 15
Aglyptodactylus madagascariensis 320
Ailuronyx 349, 354
Albanerpeton 533
Alligator 338
mississippiensis 23, 44, 53, 138
Alnus tenuifolia 469
Alsodes nodosus 319
Alsophylax 354
Alytes cisternasii 319
obstetricans 319
Amblyrhynchus 175, 309
cristatus 310
Ambystoma 323, 333, 475, 535
annulatum 333
gracile 333
jeffersonianum 333, 483
laterale 333, 336
macrodactylum 333
maculatum 333, 483
opacum 483
texanum 333, 335, 475–478, 480, 482–484
tigrinum 483
Ambystomichnus 535
Amolops himalayanus 319
jerboa 319
Amphitriton 535
Amphiuma 534
norica 537
Anarbylus 354
Andrias 533
Aneides 269, 535
Anguis fragilis 86
Anhydrophryne 315
rattrayi 319
Anisolepis 309
grilli 173, 174
undulatus 173, 174, 310
Anniella 249
Anolis 36, 37, 40–42, 76, 85, 86, 89, 104, 115, 171, 172, 176, 238, 239, 244, 309, 497
acutus 499
aeneus 499
allisoni 499
arenteolus 499
auratus 499
bartschi 499
bimaculatus 499
biporcatus 499
blanquillanus 499
bonairensis 499
capito 499
carolinensis 27, 28, 36–38, 76, 77, 80–86, 88–90, 111, 115, 117, 119, 137, 138, 429, 499
chlorocyanus 499
chrysolepis 499
coelestinus 499
conspersus 499
cooki 499
cristatellus 499
cupreus 499
cuvieri 499
cybotes 499
distichus 499
equestris 310, 499
eugenegrahami 310
evermanni 499
ferreus 499
fuscoauratus 500
garmani 500
gingivinus 500
gracilipes 500
grahami 500
gundlachi 500
hendersoni 499

homolechis 500
humilis 500
jacare 500
krugi 500
leachi 500
limifrons 137, 147, 165–170, 177, 500
lineatopus 500
lineatus 500
lionotus 500
lividus 500
luciae 499
lucius 499
luteosignifer 500
marmoratus 500
maynardi 499
mestrei 500
monensis 500
monticola 500
nebulosus 500
nubilus 500
oculatus 500
occultus 499
olssoni 499
opalinus 500
polylepis 500
poncensis 500
porcatus 499
pulchellus 500
quadriocellifer 500
recordi 499
richardi 499
roquet 500
rubribarbus 500
sabanus 500
sagrei 137, 500
scriptus 500
semilineatus 499
stratulus 500
trinitatis 499
tropidogaster 500
tropidolepis 500
tropidonotus 500
valencienni 500
vermiculatus 500
wattsi 500
Anotis maccoyi 242
Ansonia leptopus 319
Apodops 531, 532
Aposaura anchietae 242
Apraisa 349, 355
Aptycholaemus 309
Archaeotriton 536
Arenophryne 342, 345
rotunda 342, 343
Aristelliger 348, 350, 352, 353, 355
barbouri 350
cochranae 350, 353
georgeensis 350
hechti 350
lar 350
praesignis 350, 352
Arizona elegans 6, 15, 24, 77, 181
Arthroleptella 315, 317
hewetti 312, 315, 319
lightfooti 314, 316
Arthroleptides martiensseni 319
Arthroleptis
adolphifriderici 319
muta 319
poecilonotus 319
reichei 319
sp. 319
stenodactylus 315, 319
tuberosus 315, 319
variabilis 319
wageri 315, 319
wahlbergi 315, 319
xenodactylus 319
Asaccus 348, 353, 355
Ascaphus 461–470, 472, 473
truei 319, 461, 468, 469
Assa 345, 346
darlingtoni 319, 342, 343
Astylosternus diadematus 319
Atelognathus patagonicus 319
Atelopus cruciger 319
ignescens 319
subornatus 373
varius 319
Australocrinia 343
Austrelaps superbus 14, 15
Barbourula busuangensis 319
Bargmannia 535
Barycholos pulcher 315, 319
Basiliscus 193, 204, 309, 493
basiliscus 189–191, 196, 198, 201, 204–206, 310
plumifrons 310
vittatus 204, 493, 496, 499
Batrachophrynus brachydactylus 319
Batrachosauroides 534
Batrachoseps 535
Batrachyla taeniata 319
Batrachylodes vertebralis 319
Bavayia 354
Bogertia 355
Boiga cyanea 15
Bolitoglossa 257–260, 262, 263, 265–268, 272–275, 281–285
adspersa 274–276, 280–284
borburata 274, 275, 280, 282, 283
brevipes 257, 258, 262, 263, 265, 266, 270
engelhardti 262
franklini 257–270
franklini franklini 258, 260, 266, 268
franklini nigroflavescens 258, 260, 266, 268
hartwegi 261
helmrichi 261
lincolni 257, 258, 261–270
macrinii 262
marmorea 274, 275, 280, 282, 283
meliana (n. sp.) 257–270
morio 259, 261
nigrescens 274, 275, 280, 282, 283
nigroflavescens 257, 261–263, 265, 266

pandi 272, 274–276, 282–285
pesrubra 275, 281
phalarosoma 273
resplendens 257, 258, 260–263, 265–269
rostrata 357
savagei 273
sima 273
sp. 262
subpalmata 272, 274–276, 280–284
torresi 275, 281
vallecula 274–276, 280–283
Bombina bombina 319
orientalis 319
Boomgardia salamandriformis 537
Bothrops lanceolatus 15
Brachycephalus ephippium 315, 319
Brachycormus 327, 328, 536
noachicus 328, 330
Brachylophus 309
fasciatus 310
Breviceps gibbosus 319
Briba 355
Buergeria buergeria 320
Bufo 296, 486
americanus 292, 403
arenarum 296, 299, 300, 301, 486
bufo 467
coccifer 319
cognatus 299
debilis 315
marinus 299
quercicus 315, 319
viridis 319
Bungarus fasciatus 15
Bunopus 355
Cacophryne borbonica 319
Cacosternum 315
boettgeri 312, 314, 316
capense 312, 314
namaquense 312, 314
Caiman 44, 338
Calleulla guttulata 319
Callisaurus 137, 244, 248, 251, 303, 304, 307–309
draconoides 137, 146, 147, 240, 248, 250, 305–307, 310
Calodactylodes 355
Caretta 142, 156, 405, 407
caretta 124–127, 142, 159, 162, 405–407
Carlia 418, 424
bicarinata 418–424
fusca 418, 424
rhomboidalis 418, 421, 424
Carphodactylus 354
Carphophis vermis 14, 23
Catharus fuscescens 415
guttatus 415
Caudiverbera caudiverbera 319
Centrolenella 380, 381, 383, 386, 387, 449, 450, 454, 459
bergeri 385–387
bejaranoi 381, 384, 386–388
buckleyi 381, 382, 385, 386
cochranae 319
fleischmanni 293, 385, 387, 449–451, 453, 454
grandisonae 381, 382, 385
johnelsi 381, 382
lynchi 381, 382, 385
mariae 386, 388
megacheira 381, 382, 385
midas 386–388
munozorum 386–388
ocellata 381, 382, 387, 388
phenax (n. sp.) 380–388
pluvialis (n. sp.) 380–382, 384, 388
prosoblepon 385
siren 381, 384, 386
spiculata 381, 383, 384, 386–388
truebae 381, 382, 385–388
valerioi 293
viridissima 293
Cerastes cerastes 8, 15
Ceratobatrachus guentheri 319
Ceratophrys calcarata 319
ornata 486
Chalades 40, 42
ocellatus 84, 87
tridactylus 48
Chalarodon 309
Chamaeleo pumilus 67, 84, 86, 87, 99
Chamaeleolis 309
chamaeleonides 305, 310
porcus 499
Chamaesaura 309
Changalia lumbricoidea 16
multipunctata 16
Chelodina expansa 162
Chelonia 134, 160, 338, 405
depressa 162
mydas 42, 52, 56, 58, 60, 108, 124, 125, 131, 132, 134, 156, 160, 162, 406, 408
Chelotriton 320, 326–330, 536
ogygius 327, 328
paradoxus 320, 327, 328
robustus 328
Chelydra 41, 157, 158, 161, 163
serpentina 42, 56, 57, 125, 126, 148–150, 152, 153, 156
Chiasmocleis albopunctata 319
Chioglossa 536
Chirixalus hansenae 320
Chiropterotriton 261
veraepacis 261
Chlorophis carinatus 539
Choerophryne rostellifer 312, 314
Chondrodactylus 349, 355
angulifer 243
Chrysemys 23, 41–47, 156, 158, 161
picta 40–47, 53–57, 82, 125, 142, 148, 150, 161, 228, 229, 231–235, 528
Chrysopelea ornata 16
Chrysotriton 535
Cinclus mexicanus 467
Clemmys 41, 42
gutatta 42

insculpta 125
marmorata 42
Cnemaspis 355
Cnemidophorus exanguis 242
gularis 242, 244
inornatus 242, 244
ocellifer 242
sonorae 242
tesselatus 82–84, 243, 244
tigris 181, 189, 243, 244, 250, 251
uniparens 27, 38, 78, 83, 84, 89, 95, 243
velox 243
Coleodactylus 348, 355
Coleonyx 354
variegatus 243
Colopus 355
wahlbergi 243
Colostethus 366, 367, 371–373, 459
alboguttatus 319
edwardsi (n. sp.) 367–371, 373
ruizi (n. sp.) 367–369, 371, 373
sp. 373
subpunctatus 315, 371
vertebralis 315
Coluber constrictor 137, 138, 183
constrictor foxi 528
hippocrepis 15
viridiflavus 14
Comonecturoides 536
Conolophus 309
pallidus 310
subcristatus 310, 499
Conraua crassipes 319
Cophixalus ornatus 319
Cophosaurus 248, 308, 309
texanus 240, 248, 303–305, 307, 310
Coronella austriaca 6, 14
girondica 14
Corytophanes 309, 493–496
cristatus 310, 493–496, 499
hernandesii 310, 493–496, 499
sp. 310
Cosymbotus 355
Craspedoglossa stejnegeri 319
Crenadactylus 354
Crepidophryne epioticus 319
Crinia 342, 344–346
georgiana 319, 341–345
haswelli 344, 345
Crocodylus 338
Crossobamon 355
Crossodactylus aeneus 319
Crotalus 71
adamanteus 522
atrox 181, 529
durissus 15, 529
viridis 6, 15, 23, 77, 181
Crotaphytus 309
collaris 240, 310, 426–429, 499
insularis 310
silus 499
wislizenii 426, 428, 429
Cryptobranchus 533
Ctenosaura 309
acanthura 310
hemilopha 310
pectinata 310, 499
similis 174
Ctenotus pantherinus 242
Cupriguanas achalensis 499
Cyanocitta cristata 410
Cyclorana platycephalus 319
Cyclura 175, 309
cornuta 310, 499
cychlura 310
nubila 310
sp. 310
Cylindrophis rufus 15
Cynops 323, 326
Cyrtodactylus 355
Dasypops schirchi 319
Deirochelys 41
reticularia 162, 222, 224, 226
Delma 349, 350, 355
Dendrelaphis pictus 9, 16
Dendrobates 366
auratus 319
histrionicus 294
pumilio 293, 315
quinquevittatus 373
reticulatus 373
Dendrophryniscus minutus 319
Dermatonotus mulleri 319
Dermochelys 134, 405, 408
coriacea 405, 406, 408
Desmognathus 411, 415, 535
fuscus 411, 413, 415
ochrophaeus 410, 415
Diademodon tetragonus 447
Diadophis 71
punctatus arnyi 528
punctatus edwardsi 528
Dicamptodon 535
Dicroglossus occipitalis 319
Dieffenbachia 450, 451, 453
Dimorphognathus africanus 319
Diplodactylus 112, 354
ciliaris 243
conspicillatus 243
elderi 243
pulcher 243
stenodactylus 243
strophurus 243
Diploglossus bilobatus 89
delasagra 89
Dipsosaurus 45, 138, 309
dorsalis 23, 27, 28, 41, 45, 82–84, 136, 138, 165, 310, 499
Discodeles bufoniformis 319
Discoglossus pictus 319
Doleserpeton 532
Domerguella 349
Draco volans 241
Dravidogecko 355

Drosophila 163
melanogaster 487
Ebenavia 355
Echinotriton (n. gen.) 320–327, 328–330
andersoni 320–326, 331
chinhaiensis 320, 322, 324–326, 331
Edalorhina perezi 319
Elachistocleis ovalis 319
Elaphe guttata 100
longissima 14
radiata 16
taeniura 6, 15
Elapoides fuscus 16
Eleutherodactylus 287, 459
andi 319
angelicus 319
antillensis 319
biporcatus 319
bogotensis 371, 373
bufoniformis 319
conspicillatus 319
coqui 287, 288, 291, 293, 294, 450, 453
decoratus 315, 319
elegans 371
fitzingeri 319
martinicencis 293
mendax 382
sp. 373
Emydoidea 41, 149, 156
blandingii 149
Emys 156, 157
Enhydrina shistosa 15, 86
Enhydris bocourti 15
enhydris 8, 9, 16
innominata 15
jagori 15
plumbea 15
Enyalioides o'shaughnessyi 310
sp. 499
Enyalius 309
bilineatus 310
brasiliensis 310
catenatus 173, 174
fitzingeri 173, 174
iheringi 310
Epipolysemia 327
oggia 327
rusoni 537
Eremius 339
lugubris 242
Erigonum 181
Erpeton tentaculatum 15
Eublepharis 354
Eumeces fasciatus 89
laticeps 89
obsoletus 89
Euproctus 323, 536
Eurycea 430, 431, 435
neotenes 430–440, 442–444
Eurydactylodes 354
Flectonotus pygmaeus 319
Gallus 111
domesticus 68
Gambelia 309
silus 499
wislizenii 240, 310, 499
Gastrophryne carolinensis 319
Gastrotheca marsupiata 319
orophylax 459
Geckolepis 355
Geckonia 355
Gehyra 355
variegata 243
Gekko 355, 445
Geobatrachus walkeri 319
Geocrinia 344–346
laevis 319
victoriana 342, 344
Gephyromantis bicalcaratus 320
boulengeri 320
Geringophis 489, 491, 492
depressus 489–492
vetus (n. sp.) 490–492
yatkolae 490–492
Gerrhonotus coeruleus 235, 242
Geyeriella 535
Glossostoma aterrimum 319
Glyphoglossus molossus 319
Gonatodes 348, 355
Gondylosoma baliodera 16
Gopherus 41, 156, 521, 525
agassizii 521
polyphemus 521, 524
Graptemys 156–158, 160–162
geographica 162
nigrinoda 4
ouachitensis 156, 157, 159, 161, 162
pseudogeographica 156–159, 162
Grippiella 326
Gymnodactylus 355
Gyrinophilus 535
Habrosaurus 536
Hamptophryne boliviana 319
Heleioporus 450
eyrei 319
Heleophryne purcelli 319
Heliarchon 326, 329, 330
furcillatus 327
Helix 118
Hemiaspis daemelii 15
signata 15
Hemidactylus 355
flaviviridis 81
frenatus 82, 90
turcicus 138, 142
Hemiergis peronii 12
Hemiphractus fasciatus 319
Hemiphyllodactylus 355
Hemisus marmoratus 315, 319
Hemitheconyx 354
Heterodon nasicus 181
Heteronotia 355
binoeti 243
Heteropholis 354
Heterotheca 181
Holbrookia 244, 248, 303, 307, 309, 425

lacerata 304, 306–310
maculata 240, 248, 304, 305, 307, 308, 310
propinqua 304, 307–310, 425–429
Holodactylus 354
Homalopsis buccata 8, 9, 15, 16
Homonota 355
Homopholis 355
Hoplodactylus 354
Hoplophryne uluguruensis 319
Hyla 378, 379, 456, 457, 459, 507, 517–519
andersoni 507, 508, 510–515, 517–519
arborea 518
avivoca 319, 507, 508, 510–518
bogotensis 371, 373, 456
chrysocelis 293, 507, 508, 510–519
cinerea 507, 508, 510, 511, 513–518
columbiana 456
crucifer 293, 507, 508, 510–518
ebraccata 319, 453
erythromma 379
femoralis 319, 507, 508, 510–519
gratiosa 507, 508, 510–519
labialis 371
lancasteri 292
larinopygion 456–460
lindae 456–460
pantosticta (n. sp.) 456–460
pinorum 379
regilla 292, 293
reufioculis 379
salvadorensis 379
squirella 507, 508, 510, 511, 513–516, 518
uranochroa 378, 379
versicolor 293, 294, 454, 507, 509–511, 513–519
Hylactophryne augusti 319
Hylaeobatrachus 537
Hylarana albolabris 319
Hylocichla mustelina 415
Hylodes aspera 319
Hylorina sylvatica 319
Hymenochirus sp. 319
Hynobius 323
Hyperolius cystocandicans 319
Hypopachus cuneus 319
Hypselotriton 326
Ichthyophis muelleri 537
Iguana 309
delicatissima 310
iguana 137, 165, 172, 174, 310
Ischnocnema quixensis 319
Kalophrynus pleurostigma 319
Kaloula picta 319
Kaokogecko 355
Karaurus 533, 535
sharovi 532
Kassina senegalensis 319
Kinosternon 41, 156
bauri 142
subrubrum 222, 224, 226
Klauberina riversiana 41, 82, 83, 87, 242
Koalliella 536
Kyrranus loveridgei 319
Lacerta 37, 38
muralis 10, 28, 35
sicula 27, 28, 36, 37
vivipara 62, 63, 66–68, 80–82, 84, 86, 87, 94, 99, 242
Laemanctus 309, 493
Lamphropholis quichenoti 242
Larix occidentalis 469
Lechriodus fletcheri 319
Leimadophis sagittifer 389
Leiocephalus schreibersi 499
Leiolopisma coventryi 242
entrecasteauxii 242
Leiopelma hochstetteri 319
Lepidobatrachus llanensis 319
Lepidoblepharis 348, 355
Lepidochelys 130, 134, 156, 160
kempi 132, 133, 142
olivacea 56, 58, 59, 160
Lepidodactylus 355
lugubris 81, 82, 90, 243
Lepidophyma 361
dontomasi 365
gaigeae 365
lipetzi 361
occulor 362
pajapanensis 365
radula 365
smithii 361–363, 365
tarascae (n. sp.) 361–363, 365
tuxtlae 365
Leptobrachium hasselti 319
Leptodactylodon ventrimarmoratus 319
Leptodactylus albilabris 319
bolivianus 319
labialis 315
ocellatus 319
rhodonotus 319
Leptopelis brevirostris 319
Leptotyphlops 539
Lialis 349, 355
Limnaoedus ocularis 319
Limnodynastes 486
fletcheri 319
tasmaniensis 486–488
Limnomedusa macroglossa 319
Liolaemus 309, 497, 499
altissimus 501
chilensis 501
fuscus 501
gravenhorsti 83, 87, 88, 501
lemniscatus 501
lutzae 173, 174, 501
monticola 501
monticola chillanensis 501
monticola monticola 501
nigromaculatus 501
nigroviridis 501
tenuis 83, 84, 88, 501
wiegmanni 173, 174
Liopeltis sagittifer 389, 394
Liophis 389
dilepis 389
flavifrenatus 389

lineatus 389
meridionalis 389
modesta 389, 392
paucidens 389
pulcher 389–392, 394
sagittifer 389–394
sagittifer modesta 390, 391, 393, 394
sagittifer sagittifer 390, 391, 394
trifasciatus 389, 392, 394
Lisserpeton 535
Lithodytes lineatus 319
Litoria amboinensis 319, 519
nasuta 319
Luperosaurus 355, 445
Lygodactylus 348, 349, 353, 355
guibei 349
madagascariensis 349
miops 349
Lygosoma weekesae 94
Lysapsus mantidactylus 319
Mabuya heathi 242
Macroclemys 41, 156
Macropisthodon 112
Macroprotodon cucullatus 6, 14
Malaclemys 157
terrapin 234
Malpolon monspessulanus 6, 15
Mantella betsileo 320
Mantidactylus albofrenatus 320
frenatus 320
ulcerosus 315
Masticophis flagellum 181
taeniatus 15, 23
Megaelosia goeldii 319
Megalixalus seychellensis 315, 319
Megalobatrachus 533
Megalotriton 536
Megistololis lignarius 486
Megophrys monticola 319
Melanophryniscus stelzneri 315
tumifrons 319
Meroles cuveirostris 242
Mertensiella 323, 536
Mertensophryne micranotis 319
Microbatrachella 315
capensis 315, 319
Microgecko 355
Microhyla achatina 319
ornata 319
Microscalabotes 355
Micrurus fulvius 7, 15
Millotisaurus 353, 355
Mioproteus 534
Mixophyes schevilli 319
Moloch horridus 241
Morunasaurus 309
annularis 310
Myobatrachus 342, 345
gouldii 319, 342, 343
Myotis lucifugus 108
Naja naja 9, 15, 23, 43, 53, 58, 68, 117
Nannophrys ceylonensis 319
Nanorana pleskei 319
Narudasia 348, 349, 353, 355
Natalobatrachus 315
bonebergi 312, 314, 316
Natrix 112, 137
cyclopion 99
maura 6, 15
natrix 6, 15, 23
rhombifera 77
sipedon 23, 99
Naultinus 354
Nectophrynoides cryptus 319
occidentalis 486
Necturus 323, 534, 537
krausei 534
Neobatrachus pelobatoides 319
Neoseps reynoldsi 90
Nephrurus 354
laevissimus 243
levis 243
Nerodia 40, 42, 44, 71
cyclopion 99
rhombifera 77
sipedon 10, 15, 16, 23, 71–78, 99
taxispilota 71, 72, 75, 78
Nesomantis thomasseti 313–316
Neurergus 326
Notaden nichollsi 319
Notechis scutatus 15
Nothophryne 315
broadleyi 319
Notophthalmus 323, 416, 504, 536
viridescens 409, 410
Nucras tessellata 242
Nyctalus noctula 108
Nyctimantis rugiceps 319
Nyctimystes hosmeri 319
Odontophrynus occidentalis 319
Oedipina 272–274
Oedura 354
Oligodon taeniatus 16
Oligosemia 536
Oncorhynchus nerka 125
Onychomys torridus 181
Ooeidozyga baluensis 319
Ophidiocephalus 349, 354, 355
Ophisaurus 249
Opisthotriton 534
Oplurus 309
sebae 499
Oreophryne annulata 319
Oreophrynella quelchii 319
Orthophyia longa 534
Osornophryne bufoniformis 319
Osteocephalus buckleyi 319
Osteopilus septentrionalis 518
Otophryne robusta 319
Pachydactylus 355
bibroni 243
capensis 243
Pachymedusa dacnicolor 319
Pachytriton 323

Palaeopleurodeles 328–330, 536
hauffi 328
Palaeoproteus 534
Palaeosalamandrina 326
Palmatogecko 355
Paracrinia 344–346
haswelli 342–345
Paradelma 349, 355
Paragehyra 355
Paramesotriton 323
Paroedura 355
Pelobates fuscus 319
Pelodytes caucasicus 319
Peratosauroides 534
Permotriturus 537
Perochirus 355
Petropedates newtoni 319
Petrosaurus 302, 304, 307–309
mearnsi 310
thalassinus 310
Phelsuma 355
Phenacosaurus heterodermus 499
Philander opossum 198
Philautus aurifasciatus 320
leucorhinus 320
nasutus 320
variabilis 320
Philodryas 392
nattereri 539
psammophideus 389, 392
Philoria frosti 319
Philothamnus nigrofasciatus 539
Phrynobatrachus 315
acridoides 319
batesi 315, 319
bequaerti 319
bottgeri 319
dendrobates 315, 319
graueri 320
gutterosus 315, 320
keniensis 315, 320
kinangopensis 320
kreffti 320
latifrons 320
minutus 320
natalensis 320
ogoensis 320
okingensis 320
parvulus 320
perpalmatus 320
plicatus 315, 320
sp. 319
versicolor 320
Phrynohyas coriacea 319
venulosa 518
Phrynomerus sp. 319
Phrynopus montium 319
Phrynosoma 303, 304, 307–309, 496
asio 240, 310
braconnieri 240
cornutum 240, 244, 307, 499
coronatum 240, 306, 310
douglassi 240, 310
m'calli 240, 307, 310
modestum 240, 244, 310
orbiculare 240, 307
platyrhinos 240, 244, 310
semitaeniatus 240
solare 240, 310
Phyllobates 366
lugubris 315
zaparo 319
Phyllodactylus 348, 355
riebeckii 348
trachyrhinus 348
Phyllodytes tuberculosus 319
Phyllomedusa palliata 319
Phyllopezus 350, 352, 355
Phyllurus 354
Phymaturus 309
palluma 310
Physalaemus fuscomaculatus 319
pustulosus 319
Physalia 407
Piceoerpeton 535
Pipa 312, 313, 315–318
arrabali 315
aspera 314–316
carvalhoi 314–316
parva 314–316
pipa 314–316
snethlageae 314–316
Pituophis melanoleucus 15, 22, 23
Platymantis corrugatus 320
dorsalis 320
Platynotus 249
semitaeniatus 175, 248
Platyplectron dorsalis 319
Plectrohyla glandulosa 319
Plethodon 269, 281, 409, 535
cinereus 4[illegible]9–416
Pletholax 349, 355
Pleurodeles 323, 327–330, 536
waltl 322
Pleurodema cinera 319
diplolistris 315
Plica umbra 173, 174
Polychrus 309, 310
acutirostris 173–176, 240, 248
gutturosus 310
marmoratus 173, 174, 309, 310
Polypedates eques 320
Polysemia ogygia 327
Populus tremuloides 469
Praesalamandra 537
Pristidactylus achalensis 499
Pristurus 348, 353, 355
Proamphiuma 534
Probreviceps macrodactylus 319
Proceratophrys sp. 319
Procynops 536
Prodesmodon 534
Prohypogeophis tunariense 537
Prosiren 533

Prosopis glandulosa 181
Proteus 534, 537
bavaricus 534
Psammophis schokari 7, 15
sibilans subtaeniata 539
Pseudacris 507, 516–519
brachyphona 319
brimleyi 507, 508, 510, 511, 513–516, 518
ornata 507, 508, 510, 511, 513–516, 518
streckeri 319
triseriata 507, 510
triseriata feriarum 507, 508, 510–516, 518
Pseudechis australis 15
porphyriacus 15
Pseudemys 41, 156, 158, 163
floridana 222, 223, 226
scripta 126, 222–224, 226
Pseudis paradoxus 319
Pseudobranchus 536
Pseudoeurycea 262, 263
brunnata 263
goebeli 263
Pseudogekko 355
Pseudogonatodes 348, 355
Pseudonaja nuchalis 15
textilis 15
Pseudopaludicola pusilla 315
sp. 319
Pseudophryne bibroni 342, 343
guentheri 315, 319
Pseudothecadactylus 354
Pseudotriton 535
Pseudotsuga menziesii 469
Ptenopus 355
garrulus 243
Pternohyla fodiens 319
Ptyas korros 16
mucosus 9, 16
Ptychadaena mascareniensis 320
oxyrhynchus 320
Ptychohyla 374, 377–379
euthysanota 319, 374, 375, 378, 379
euthysanota euthysanota 378
euthysanota macrotympanum 378
ignicolor 374, 378
leonhardschultzei 374, 378
panchoi (n. sp.) 374–380
schmidtorum 374, 375, 378, 379
schmidtorum chamulae 378
schmidtorum schmidtorum 378
spinipollex 374, 377, 378
Ptychozoon 355
intermedium 445
Ptyodactylus 355
Pygopus 349, 355
Pyxicephalus adspersa 320
Quedenfeldtia 348, 353, 355
Quercus havardi 181
Ramanella obscura 319
variegata 319
Ramonellus 533
Ramphotyphlops 539
Rana 486, 504
arvalis 504
boylei 315
breviceps 320
cascadae 403
catesbeiana 46, 293, 467
clamitans 293, 314, 320, 528
dalmatina 504
esculenta 312–314, 320
iberica 502, 504
pipiens 468
pretiosa 467
septentrionalis 528
sylvatica 320
temporaria 68, 317, 467, 502
Ranidella 341–346
bilingua 342, 343
deserticola 342, 343
glauerti 319, 342, 343
parainsignifera 342, 343
remota 342, 343
riparia 341–346
signifera 341–346
tasmaniensis 319, 341–346
Relictovomer pearsei 319
Rhabdophis 112
chrysargus 16
stolatus 11, 16
subminiatus 9, 16
Rhacodactylus 354
Rhacophorus maculatus 320
microtus 320
Rhadinaea modesta 389, 392, 394
sagittifera 389
Rhamphophryne proboscidea 319
Rheobatrachus 345, 346
silus 319, 342, 343
Rhinocheilus lecontei 181
Rhinoderma darwini 320
rufum 320
Rhinophrynus 395, 396, 403
dorsalis 320, 395–397, 399, 401, 403
Rhoptropus 355
Rhyacotriton 535
Rhynchoedura 354
ornata 243
Salamandra 323, 329, 536
laticeps 320, 329, 330
ogygia 327
perversa 537
sansaniensis 329, 536
terdigitata 320
Salamandrina 323, 536
Salasiella browni 168
Salmo alpinus 131
clarki 467
solar 131
Saurodactylus 348, 353, 355
Sauromalus 309, 496
ater 310, 499

australis 310
hispidis 310, 499
obesus 310, 499
varius 310, 499
Scapherpeton 535
Scaphiopus hammondi 319
Sceloporus 28, 29, 33, 35–38, 98, 179, 182, 183, 302–304, 307–309, 496, 497, 499
aeneus 89, 94–100
aeneus aeneus 81, 82, 88, 94–98, 100
aeneus bicanthalis 81, 82, 94–97
chrysostictus 500
clarki 241, 244, 248, 500
cyanogenys 41, 67, 84, 86–88
edwardtaylori 500
gadoviae 500
graciosus 38, 78, 200, 241, 244, 500
grandaevus 310
horridus 500
jarrovi 67, 81–84, 86, 205, 241, 244, 310, 500
lundelli 500
maculosus 500
magister 241, 244, 310, 501
melanorhinus 501
merriami 218, 501
nelsoni 501
occidentalis 81, 82, 310, 501
olivaceus 200, 249, 250, 501
orcutti 305, 310, 501
poinsetti 501
pyrocephalus 501
scalaris 89, 241, 501
spinosus 501
undulatus 26–28, 30–32, 34–37, 78, 83, 84, 95, 147, 178–180, 182, 183, 185–187, 200, 205, 215, 241, 244, 501
utiformis 307, 501
virgatus 241, 244, 501
Scutifer mammatus 319
Siren 536
Smilisca baudini 319
Sminthillus limbatus 319
Solenopsis 165, 167–169
Sooglossus gardineri 313–315
sechellensis 313–315
Spelaeophryne methneri 319
Spenophryne pluvialis 319
Sphaenorhynchus eurhostus 319
Sphaerodactylus 348, 355
cinereus 151
Sphenodon 302
Sphenomorphus quoyii 101
Stator 302, 303, 307
grandaevus 310
Staurois natator 320
Staurotypus triporcatus 162
Stenodactylus 355
Stereocyclops incrassatus 319
Sternotherus 41–43, 156, 158
minor 42, 142
odoratus 40, 42–44, 55–58, 158, 222, 226
Storeria dekayi 7
Suta suta 15
Synapturanus mirandaribeiroi 319
Syrrhophus longipes 315
marnocki 315, 486, 488
pipilans 319
Takydromus tachydromoides 242, 243
Tanystropheus 348, 349
longobarbicus 349
Tanytrachelos 348, 349
ahynis 349
Tarentola 355
maurentanica 138
Taricha 323, 468, 472, 504, 536
Taudactylus 345, 346
acutirostris 319, 342, 343
Tenebrio 426, 427
Teratolepis 355
Teratoscincus 355
Terrapene 41, 156
carolina 125
Testudo 338
elegans 40
hermanni 55
Thamnophis 22, 104, 106, 107, 109, 112, 114, 115, 117, 119
brachystoma 23
butleri 106
elegans 14, 23, 41, 67
eques 111
melanogaster 111, 112
radix 15, 23, 106, 115
sauritus 7, 43, 528
sirtalis 6, 14, 23, 24, 99, 101, 104, 106–108, 110–120
sirtalis parietalis 104, 105
spp. 467
Thecadactylus 355
Thoropa miliaris 319
Tischleriella 326
Tomodactylus nitidus 319
sp. 315
Tomopterna delalandii 320
Trachops cirrhosus 454
Trachycephalus sp. 319
Triassurus 537
Trichobatrachus robustus 320
Trimeresurus albolabris 9, 15
Trionyx 157, 163, 338
sinensis 54, 338
spiniferus 125, 149, 150
Triprion petasatus 319
Triton noachicus 327
Triturus 323, 326, 536
boscai 502, 504, 506
helveticus 504, 506
italicus 504
montadoni 504
vulgaris 502–506
Tropidoclonion lineatum 23
Tropidurus 309

albemarlensis 499
delanonis 499
duncanensis 499
spinulosus 310
torquatus 173, 174, 241, 499
Tropiocolotes 355
Tupinambis teguixin 89
Turdus migratorius 415
Tylototriton 320–330, 536
andersoni 320, 321, 328
asperrimus 320, 321, 326
chinhaiensis 320, 321
kosswigi 320, 329, 330
kweichowensis 320, 321, 326, 331
primigenius 320, 329, 330
taliangensis 320, 321, 326, 331
verrucosus 320–326, 330, 331
weigelti 320, 329, 330
Typhlomolge 430
Typhlosaurus gariepenis 242, 249
lineatus 242, 249
Uma 303, 307, 309
exsul 304, 306–310
inornata 304, 307
notata 304, 307–310
paraphygas 304, 307–310
scoparia 304, 307
Unechis gouldii 15
Uperodon globulosum 319
systoma 319
Uperoleia 342, 345, 346
inundata 342, 343
marmorata 319
Uranoscodon superciliosum 173, 174
Urocentron castor 173, 174
Uromastix hardwicki 83, 429
Uroplatus 355
Urosaurus 302, 304, 307–309
clarionensis 310
graciosus 241, 244, 248, 310
microscutatus 310
ornatus 27, 208–210, 214–218, 241, 244, 245, 248, 310
Urostrophus vautieri 173, 174
Uta 181–183, 187, 302, 304, 308, 309
stansburiana 26, 28, 78, 81, 82, 178–181, 183–185, 187, 189, 215, 241, 307, 310
Vanzolinius discodactylus 319
Varanus komodoensis 350
Vaughneilla urodeloides 537
Vibrissaphora liui 319
Vipera 117
ammodytes 7, 15
aspis 6, 7, 15, 23
berus 6, 7, 15, 23, 117
latastei 7, 15
seoanei 7, 15
ursinii 7, 15
Wolterstorffiella 535
Xanthocephalum microcephalum 181
Xanthosoma 385
Xantusia vigilis 23, 28, 78, 84, 86, 87, 90, 99, 242
Xenocrophis piscator 15
Xenopeltis unicolor 15
Xenopus 41, 42, 44, 47
laevis 45, 46, 396, 397
mulleri 319
sp. 319
Zachaenus parvulus 319
Zamensis argentinus 389, 392, 394

TOPICAL INDEX
HERPETOLOGICA
Volume 38 December 1982

ACTIVITY, *Bufo arenarum* (behavioral regulation of water balance) 296–301.

AGING, *Ascaphus truei* (mark-recapture, cohorts) 461–468.

ALBUMIN, myobatrachine frogs (biochemical evolution) 341–348.

ALLOZYMES, *Bolitoglossa franklini* group (evolutionary relationships) 257–272; 8 spp. *Bolitoglossa* (genetic differentiation) 272–287.

BEHAVIOR, lizards (behaviors associated with oviposition and parturition) 80–93; *Thamnophis sirtalis parietalis* (aggregations, sexual behaviors) 104–123; *Bufo arenarum* (behavioral water balance) 296–301; *Ambystoma texanum* (courtship) 333–336; *Rhinophrynus dorsalis* (aggregative behavior of tadpoles) 395–404; *Gopherus polyphemus* (responses to burrow flooding in winter) 521–525.

BIOGEOGRAPHY, *Bolitoglossa franklini* group (evolutionary relationships) 257–272; 8 spp. *Bolitoglossa* (genetic differentiation, South American invasion) 272–287; myobatrachine frogs (generic origins antedate fragmentation of Gondwanaland) 341–348.

CHROMOSOME BANDING, 12 spp. hylid frogs (taxonomic groupings agree with those obtained by other methods) 507–520.

CLOACAL BONES AND SACS, gekkonoid lizards (evolutionary relationships) 348–355.

CLUTCH, freshwater turtles (individual, age and annual variation in clutch size) 222–227.

COLOR CHANGE, *Holbrookia propinqua* (development of breeding coloration in females) 425–429.

COMPETITION, *Sceloporus undulatus*, *Uta stansburiana* (intraspecific competition for food and its relation to egg and hatchling size) 178–188.

CORPUS LUTEUM, lizards (effects on timing of oviposition and parturition) 80–93.

COURTSHIP, *Ambystoma texanum* (stream breeders vs pond breeders) 333–336.

DEMOGRAPHY, *Basiliscus basiliscus* (comparative demography of two populations) 189–208; *Urosaurus ornatus* (demographic variation) 208–221; *Ascaphus truei* (late maturity, great longevity) 461–468.

DIMORPHISM, *Carlia bicarinata* (sexual dimorphism) 418–425.

DISTRIBUTION, 3 spp. sea turtles (vic Gulf Stream) 405–409; *Eurycea neotenes* (epigean populations) 430–444.

DISTRIBUTION MAPS, *Bolitoglossa franklini* group (Guatemala and Chiapas, Mexico) 262, 268; 8 spp. *Bolitoglossa* (Cen. and S. America) 274; *Centrolenella* spp. (S. America) 383; *Liophis sagittifer* (S. America) 391; *Caretta caretta*, *Dermochelys coriacea*, *Chelonia mydas* (vic Gulf Stream near Florida) 407, 408; *Plethodon cinereus* (N.E. United States) 412; *Eurycea neotenes* (Texas) 432; *Ambystoma texanum* (E. Cen. United States) 478–481; *Gopherus polyphemus* (Florida, Georgia) 522.

DORMANCY, *Thamnophis sirtalis* (required by males for initiation of sexual activity) 104–123; *Gopherus polyphemus* (response to burrow flooding in winter) 521–525.

EGGS, lizards (oviposition) 80–93; *Sceloporus aeneus* (role of retention in the evolution of viviparity) 94–103; oviparous reptiles (structure of eggshell, water relations) 136–155; *Anolis limifrons* (spatial variation in egg mortality) 165–171; 13 spp. iguanid lizards (clutch size and egg size) 171–178; *Chrysemys picta* (reproductive energetics) 228–237; *Ambystoma texanum* (size in pond vs stream-breeding forms) 475–485.

ELECTROPHORESIS, *Bolitoglossa franklini* group (evolutionary relationships and description of a new species) 257–272; 8 spp. *Bolitoglossa* (genetic differentiation) 272–287.

ENERGETICS, *Chrysemys picta* (reproduction) 228–237; lizards (relationship of ecological energetics and relative clutch mass) 237–255.

FLOODING, *Gopherus polyphemus* (responses to burrow flooding in winter) 521–525.

FOSSILS, *Tylototriton* (generic partitioning with description of a new genus) 320–332; *Geringophis vetus* (n. sp. from Oligocene of Nebraska) 486–489.

GEOGRAPHIC LOCALITIES

Alabama, *Agkistrodon piscivorus* 16–25; *Sceloporus undulatus* 26–39.

Argentina, *Liophis sagittifer* 389–395.

Arizona, *Urosaurus ornatus* 208–221.

Australia, *Limnodynastes tasmaniensis* 486–489.

Bolivia, *Centrolenella* spp. 380–388; *Liophis sagittifer* 389–395.

Brazil, 13 spp. iguanid lizards 171–178.

Canada (Manitoba), *Thamnophis sirtalis* 104–123.

Central and South America, 8 spp. *Bolitoglossa* 272–287.

Columbia, *Colostethus edwardsi*, *C. ruizi* 366–374; *Hyla pantosticta* 456–460.

Costa Rica, *Basiliscus basiliscus* 189–208.

Ecuador, *Hyla pantosticta* 456–460.

Florida, 3 spp. sea turtles 405–409; *Hyla gratiosa* 507–520; *Gopherus polyphemus* 521–525.

France, *Lacerta vivipara* 62–70.

Georgia, *Gopherus polyphemus* 521–525.
Guatemala, *Bolitoglossa franklini* group 257–272; *Ptychohyla panchoi* 374–380.
Iberian Peninsula, *Rana iberica*, *Triturus boscai* 502–506.
Kansas, *Sceloporus undulatus* 178–188.
Kentucky, *Ambystoma texanum* 333–336.
Louisiana, *Hyla chrysocelis*, *H. cinerea* 507–520.
Massachusetts, *Plethodon cinereus* 409–417; *Hyla versicolor* 507–520.
Mexico, *Sceloporus aeneus* 94–103.
Mexico (Michoacan), *Lepidophyma tarascae* 361–366.
Mexico (Oaxaca), *Abronia mitchelli* 355–361.
Michigan, *Chrysemys picta* 228–237.
Missouri, *Nerodia sipedon* 71–79.
Montana, *Ascaphus truei* 461–474.
Nebraska, *Geringophis vetus* 489–492.
New Guinea, *Carlia bicarinata* 418–425.
New Mexico, *Urosaurus ornatus* 208–221.
North Carolina, hylid frogs 507–520.
Panama (Barro Colorado Island), *Anolis limifrons* 165–171; *Centrolenella fleischmanni* 449–455.
Paraguay, *Liophis sagittifer* 389–395.
Peru, *Centrolenella* spp. 380–388.
Puerto Rico, *Eleutherodactylus coqui* 287–295.
South Carolina, 5 spp. turtles 222–227; *Hyla cinerea* 507–520.
Tennessee, *Hyla avivoca*, *H. chrysocelis* 507–520.
Texas, *Uta stansburiana* 178–188; *Urosaurus ornatus* 208–221; *Holbrookia propinqua* 425–429; *Eurycea neotenes* 430–444.
United States (East-Central), *Ambystoma texanum* 475–485.
Wisconsin, *Graptemys pseudogeographica*, *G. ouachitensis* 156–164.

GEOGRAPHIC VARIATION, *Liophis sagittifer* 389–395; *Ambystoma texanum* (mode of reproduction and larval characteristics) 475–485.

GONADOTROPINS, turtles (circulating gonadotropins during annual gonadal cycles of males and females) 51–61; *Nerodia sipedon* (effects of FSH administration on vitellogenesis) 71–79; lizards (control of oviducal contractions during oviposition and parturition) 80–93.

HABITAT, *Ambystoma texanum* (pond vs stream-breeding forms) 475–485.

HATCHLINGS, sea turtles (olfactory imprinting) 124–135; oviparous reptiles (size in relation to hydric environment of egg) 136–155; turtles (nest site ecology and sex ratio) 156–164; *Sceloporus undulatus*, *Uta stansburiana* (variable hatchling size) 178–188; *Ambystoma texanum* (morphology of pond vs stream-breeding forms) 475–485.

HETEROTOPIC BONES, 3 fam. frogs (survey) 312–320.

HISTOLOGY, *Agkistrodon piscivorus* (testes) 16–25; *Nerodia sipedon* (ovaries) 71–79; *Thamnophis sirtalis* (skin) 104–123; *Carlia bicarinata* (gonads) 418–425.

IMPRINTING, sea turtles (olfactory and social facilitation models) 124–135.

KARYOTYPES, *Corytophanes cristatus*, *C. hernandesii* (description and relationship of chromosomal and morphological evolution in lizards) 493–501; *Rana iberica*, *Triturus boscai* 502–506.

LIFE HISTORY, *Anolis limifrons* (egg mortality) 165–171; 13 spp. iguanid lizards (clutch size and egg size) 171–178; *Sceloporus undulatus*, *Uta stansburiana* (variable egg and hatchling size) 178–188; *Basiliscus basiliscus* (demography) 189–208; *Urosaurus ornatus* (demographic and life history variation) 208–221; freshwater turtles (reproductive patterns) 222–227; *Chrysemys picta* (reproductive energetics) 228–237; lizards (relationship of relative clutch mass and ecology) 237–255; *Carlia bicarinata* (sexual maturity) 418–425; *Ascaphus truei* (age, growth, longevity) 461–468; *Ascaphus truei* (extreme philopatry) 468–474; *Ambystoma texanum* (pond vs stream breeding strategies) 475–485; *Limnodynastes tasmaniensis* (maturity attained extremely early) 486–489.

LIPIDS, *Chrysemys picta* (comparison of body lipids, egg lipids and hatchling lipids) 228–237.

MARK-RECAPTURE, *Ascaphus truei* (life history, growth) 461–468; *Ascaphus truei* (movement patterns) 468–474.

MICRO-COMPLEMENT FIXATION, myobatrachine frogs (biochemical evolution) 341–348.

MIMICRY, *Plethodon cinereus* (erythrism) 409–417.

MORPHOLOGY, oviparous reptiles (structure of eggshells) 136–155; sceloporine iguanids (scleral ossicles) 302–311; 3 fam. frogs (heterotopic bones) 312–320; gekkonoid lizards (cloacal bones and sacs) 348–355; 2 new spp. *Colostethus* (anal sheath) 366–374; *Corytophanes cristatus*, *C. hernandesii* (karyotypes, relationship between chromosome and morphological evolution) 493–501.

MOVEMENTS, *Ascaphus truei* (age specific patterns) 468–474.

NESTS, *Graptemys* spp. (nest site ecology and sex ratio of hatchlings) 156–164.

OCEAN, 3 spp. sea turtles (distribution vic Gulf Stream) 405–409.

OLFACTION, *Caretta caretta* (olfactory imprinting to natal beach) 124–135; *Rhinophrynus dorsalis* (schooling in tadpoles) 395–404.

PHEROMONE, *Thamnophis sirtalis parietalis* (female attractivity and potential fecundity) 104–123.

PHILOPATRY, *Ascaphus truei* (extreme philopatry in adults) 468–474.

PHYLOGENY, Sceloporine iguanids (scleral ossicles) 302–311; myobatrachine frogs (biochemical evolution) 341–348; *Ptychohyla* 379; *Geringophis* spp. 486–489.

PLACENTA, *Sceloporus aeneus* (evolution of viviparity and placentation) 94–103.

POLYMORPHISM, *Plethodon cinereus* (erythrism) 409–417.

PREDATION, *Plethodon cinereus* (bluejay predation in mimicry experiments) 409–417.

PROGESTERONE, turtles (progesterone levels and

relationship to annual cycle) 51–61; *Lacerta vivipara* (synthesis, plasma levels and binding to transcortin-type protein) 62–70; lizards (relationship to oviducal hypertrophy) 80–93; *Holbrookia propinqua* (relation to breeding coloration) 425–429.

REPRODUCTION, snakes (types and timing of spermatogenic cycles, climatic correlates and correlations with female cycles) 5–16; *Agkistrodon piscivorus* (testicular and androgenic cycle) 16–25; *Sceloporus undulatus* (climatic effects on testicular cycle) 26–39; *Chrysemys picta*, *Sternotherus odoratus* (regulation of vitellogenesis) 40–50; turtles (endocrine patterns in reproductive cycles) 51–61; *Lacerta vivipara* (progesterone synthesis and plasma concentrations during annual cycle) 62–70; *Nerodia sipedon* (ovarian cycle, effects of hypophysectomy and FSH administration) 71–79; lizards (hormonal control of oviposition and parturition) 80–93; *Sceloporus aeneus* (evolution of viviparity and placentation) 94–103; *Thamnophis sirtalis parietalis* (interactions of behavior and physiology) 104–123; sea turtles (imprinting to natal beach and later return for nesting) 124–135; oviparous reptiles (structure of eggshells, water relations of eggs) 136–155; turtles (sex determination) 156–164; *Anolis limifrons* (egg mortality) 165–171; 13 spp. iguanid lizards (clutch size, egg size) 171–178; *Sceloporus undulatus*, *Uta stansburiana* (egg and hatchling size) 178–188; *Basiliscus basiliscus* (comparative demography of two populations) 189–208; *Urosaurus ornatus* (demographic and life history variation) 208–221; freshwater turtles (reproductive patterns) 222–227; *Chrysemys picta* (energetics) 228–237; lizards (relative clutch mass) 237–255; *Carlia bicarinata* (male, female cycles) 418–425; *Holbrookia propinqua* (breeding coloration) 425–429; *Ambystoma texanum* (pond vs stream-breeding forms, larval characteristics) 475–485; *Limnodynastes tasmaniensis* (sexual maturity attained during hindlimb bud development) 486–489.

SCHOOLING, *Rhinophrynus dorsalis* (aggregative behavior of tadpoles) 395–404.

SCLERAL OSSICLES, sceloporine iguanids (survey) 302–311.

SELECTION, *Sceloporus undulatus*, *Uta stansburiana* (variable egg and hatchling size) 178–188; *Urosaurus ornatus* (r and K-selection on demography) 208–221.

SEX DETERMINATION, turtles (effect of temperature) 156–164.

SOUND PRESSURE LEVEL, *Eleutherodactylus coqui* (call intensity and function) 287–295; *Centrolenella fleischmanni* (effect of vegetation on call propagation) 449–455.

SPERMATOGENESIS, snakes (types and timing of spermatogenic cycles, climatic correlates and correlations with female cycles) 5–16; *Agkistrodon piscivorus* (testicular and androgenic cycle) 16–25; *Sceloporus undulatus* (effects of temperature and photoperiod) 26–39; turtles (testosterone cycles) 51–61; *Carlia bicarinata* (male reproductive cycle) 418–425.

SURVIVORSHIP, *Anolis limifrons* (spatial variation in egg mortality) 165–171; *Sceloporus undulatus*, *Uta stansburiana* (hatchling survivorship) 178–188; *Basiliscus basiliscus* (comparative demography of two populations) 189–208; *Urosaurus ornatus* (demographic variation) 208–221.

SYSTEMATICS, *Bolitoglossa franklini* group (evolutionary relationships and description of a new species) 257–272; 8 spp. *Bolitoglossa* (genetic differentiation, biogeography) 272–287; sceloporine iguanids (variation in scleral ossicles) 302–311; *Tylototriton* (generic partitioning with description of a new genus) 320–332; myobatrachine frogs (biochemical evolution) 341–348; gekkonoid lizards (variation in cloacal bones and sacs) 348–355; *Abronia mitchelli* (n. sp.) 355–361; *Lepidophyma tarascae* (n. sp.) 361–366; *Colostethus edwardsi*, *C. ruizi* (n. spp.) 366–374; *Ptychohyla panchoi* (n. sp.) 374–380; *Centrolenella pluvialis*, *C. phenax* (n. spp.) 380–388; *Liophis sagittifer* (geographic variation) 389–395; *Hyla pantosticta* (n. sp.) 456–460; *Ambystoma texanum* (sibling species complex) 475–485; *Gerrhophis vetus* (n. sp.) 486–489; *Corytophanes cristatus*, *C. hernandesii* (karyotypes) 493–501; *Rana iberica*, *Triturus boscai* (karyotypes) 502–506; 12 spp. hylid frogs (chromosome banding patterns, taxonomic groupings agree with those obtained by other methods) 507–520.

TADPOLES, *Rhinophrynus dorsalis* (aggregative behavior) 395–404.

TAXONOMIC KEY, *Centrolenella* spp. (Perú, Bolivia) 387–388; *Liophis sagittifer* subspp. 393–394.

TEMPERATURE, *Thamnophis sirtalis* (effect upon female sexual receptivity) 104–123; turtles (effect upon sex determination) 156–164.

TESTOSTERONE, *Agkistrodon piscivorus* (seasonal androgen levels) 16–25; turtles (relation to spermatogenic and ovarian cycles) 51–61; lizards (relation to oviducal hypertrophy) 80–93; *Holbrookia propinqua* (relation to breeding coloration) 425–429.

TROGLOBITES, *Eurycea neotenes* (distribution) 430–444.

VITELLOGENESIS, *Chrysemys picta*, *Sternotherus odoratus* (regulation by estrogen) 40–50; *Lacerta vivipara* (relation to progesterone levels) 62–70; *Nerodia sipedon* (effects of FSH administration) 71–79.

VITELLOGENIN, 5 spp. reptiles (biochemical properties, hormonal control, synthesis) 40–50; *Thamnophis sirtalis parietalis* (pheromone of females chemically related to vitellogenin) 104–123.

VOCALIZATIONS, *Eleutherodactylus coqui* (call intensity and function) 287–295; *Centrolenella fleischmanni* (effects of vegetation on call propagation) 449–455.

WATER BALANCE, *Bufo arenarum* (behavioral regulation) 296–301; *Gopherus polyphemus* (response to burrow flooding in winter) 521–525.

HERPETOLOGICA

Volume 38 December 1982

TABLE OF CONTENTS

Aldridge, Robert D.
The Ovarian Cycle of the Watersnake *Nerodia sipedon*, and Effects of Hypophysectomy and Gonadotropin Administration ---- 71
Alvarez, Ticul (see Bezy, Robert L.)
Andrews, Robin M.
Spatial Variation in Egg Mortality of the Lizard *Anolis limifrons* ---- 165
Announcements ---- 339, 446, 447, 543
Annual Financial Statement ---- 544
Barber, Margaret M. (see Zug, George R.)
Berger, Thomas J. (see Duellman, William E.)
Bezy, Robert L., Robert G. Webb, and Ticul Alvarez
A New Species of the Genus *Lepidophyma* (Sauria: Xantusiidae) from Michoacán, México ---- 361
Boardman, Thomas J. (see Packard, Mary J.)
Book Reviews ---- 337, 445, 526
Brodie, Edmund D., Jr. (see Nussbaum, Ronald A.)
Brower, Lincoln P. (see Tilley, Stephen G.)
Brown, Kent L. (see Ferguson, Gary W.)
Bull, James J. (see Vogt, Richard C.)
Callard, I. P. (see Ho, S.-M.)
Camazine, Brian (see Garstka, William R.)
Campbell, Jonathan A.
A New Species of *Abronia* (Sauria, Anguidae) from the Sierra Juárez, Oaxaca, México ---- 335
Campbell, Jonathan A. (see Duellman, William E.)
Cannatella, David C. and William E. Duellman
Two New Species of *Centrolenella*, with a Brief Review of the Genus in Perú and Bolivia ---- 380
Clarke, Robert F. (see Cooper, William E., Jr.)
Congdon, Justin D. and Donald W. Tinkle
Reproductive Energetics of the Painted Turtle (*Chrysemys picta*) ---- 228
Cooper, William E., Jr. and Robert F. Clarke
Steroidal Induction of Female Reproductive Coloration in the Keeled Earless Lizard, *Holbrookia propinqua* ---- 425
Crews, David (see Garstka, William R.)
Daugherty, Charles H. and Linda R. Maxson
A Biochemical Assessment of the Evolution of Myobatrachine Frogs ---- 341
Daugherty, Charles H. and Andrew L. Sheldon
Age-Determination, Growth, and Life History of a Montana Population of the Tailed Frog (*Ascaphus truei*) ---- 461
Age-Specific Movement Patterns of the Frog *Ascaphus truei* ---- 468
DeMarco, Vincent G. (see Ferguson, Gary W.)
de Queiroz, Kevin
The Scleral Ossicles of Sceloporine Iguanids: A Reexamination with Comments on Their Phylogenetic Significance ---- 302
Dixon, James R. and Robert A. Thomas
The Status of the Argentine Colubrid Snakes *Liophis sagittifer* and *L. trifasciatus* ---- 389
Dudley, Joan C. (see Zug, George R.)
Duellman, William E. and Thomas J. Berger
A New Species of Andean Treefrog (Hylidae) ---- 456

Duellman, William E. and Jonathan A. Campbell
A New Frog of the Genus *Ptychohyla* (Hylidae) from the Sierra de las Minas, Guatemala ... 374
Duellman, William E. (see Cannatella, David C.)
Dunham, Arthur E.
Demographic and Life-History Variation among Populations of the Iguanid Lizard *Urosaurus ornatus*: Implications for the Study of Life-History Phenomena in Lizards ... 208
Ferguson, Gary W., Kent L. Brown, and Vincent G. DeMarco
Selective Basis for the Evolution of Variable Egg and Hatchling Size in Some Iguanid Lizards ... 178
Foster, Mercedes S. and Roy W. McDiarmid
Study of Aggregative Behavior of *Rhinophrynus dorsalis* Tadpoles: Design and Analysis ... 395
Fritts, Thomas H. (see Hoffman, Wayne)
Garstka, William R., Brian Camazine, and David Crews
Interactions of Behavior and Physiology during the Annual Reproductive Cycle of the Red-Sided Garter Snake (*Thamnophis sirtalis parietalis*) ... 104
Gibbons, J. Whitfield
Dedication to Donald W. Tinkle ... 2
Reproductive Patterns in Freshwater Turtles ... 222
Grassman, Mark A. (see Owens, David W.)
Guillette, Louis J., Jr.
The Evolution of Viviparity and Placentation in the High Elevation, Mexican Lizard *Sceloporus aeneus* ... 94
Guillette, Louis J., Jr. (see Jones, Richard E.)
Hanken, James and David B. Wake
Genetic Differentiation among Plethodontid Salamanders (Genus *Bolitoglossa*) in Central and South America: Implications for the South American Invasion ... 272
Heisermann, G. J. (see Ho, S.-M.)
Hendrickson, John R. (see Owens, David W.)
Herrero, Pilar
Karyotypes of Two Iberian Amphibians: *Rana iberica* (Anura: Ranidae) and *Triturus boscai* (Caudata: Salamandridae) ... 502
Ho, S.-M., S. Kleis, R. McPherson, G. J. Heisermann, and I. P. Callard
Regulation of Vitellogenesis in Reptiles ... 40
Hoffman, Wayne and Thomas H. Fritts
Sea Turtle Distribution along the Boundary of the Gulf Stream Current off Eastern Florida ... 405
Holman, J. Alan
Geringophis (Serpentes: Boidae) from the Middle Oligocene of Nebraska ... 489
Horton, Philippa
Precocious Reproduction in the Australian Frog *Limnodynastes tasmaniensis* ... 486
Hurley, Daniel D. (see Narins, Peter M.)
Index to Scientific Names for Volume 38 ... 546
Jacob, James S. (see Johnson, Leslie F.)
Johnson, Leslie F., James S. Jacob, and Pam Torrance
Annual Testicular and Androgenic Cycles of the Cottonmouth (*Agkistrodon piscivorus*) in Alabama ... 16
Jones, Richard E. and Louis J. Guillette, Jr.
Hormonal Control of Oviposition and Parturition in Lizards ... 80
Kleis, S. (see Ho, S.-M.)
Kluge, Arnold G.
Cloacal Bones and Sacs as Evidence of Gekkonoid Lizard Relationships ... 348
Licht, Paul
Endocrine Patterns in the Reproductive Cycle of Turtles ... 51
Lundrigan, Barbara L. (see Tilley, Stephen G.)
Lynch, James F. (see Wake, David B.)
Lynch, John
Two New Species of Poison-Dart Frogs (*Colostethus*) from Colombia ... 366
Marion, Ken R.
Reproductive Cues for Gonadal Development in Temperate Reptiles: Temperature and Photoperiod Effects on the Testicular Cycle of the Lizard *Sceloporus undulatus* ... 26
Maxson, Linda R. (see Daugherty, Charles H.)

McDiarmid, Roy W. (see Foster, Mercedes S.)
McPherson, R. (see Ho, S.-M.)
Means, D. Bruce
Responses to Winter Burrow Flooding of the Gopher Tortoise (*Gopherus polyphemus* Daudin) ---- 521
Narins, Peter M. and Daniel D. Hurley
The Relationship between Call Intensity and Function in the Puerto Rican Coqui (Anura: Leptodactylidae) ---- 287
Nomenclatural Notices ---- 339, 447, 539
Nussbaum, Ronald A.
Heterotopic Bones in the Hindlimbs of Frogs of the Families Pipidae, Ranidae and Sooglossidae ---- 312
Nussbaum, Ronald A. and Edmund D. Brodie, Jr.
Partitioning of the Salamandrid Genus *Tylototriton* Anderson (Amphibia: Caudata) with a Description of a New Genus ---- 320
Owens, David W., Mark A. Grassman, and John R. Hendrickson
The Imprinting Hypothesis and Sea Turtle Reproduction ---- 124
Packard, Gary C. (see Packard, Mary J.)
Packard, Mary J., Gary C. Packard, and Thomas J. Boardman
Structure of Eggshells and Water Relations of Reptilian Eggs ---- 136
Petranka, James W.
Courtship Behavior of the Small-Mouthed Salamander (*Ambystoma texanum*) in Central Kentucky ---- 333
Geographic Variation in the Mode of Reproduction and Larval Characteristics of the Small-Mouthed Salamander (*Ambystoma texanum*) in the East-Central United States ---- 475
Price, Holly J. (see Vitt, Laurie J.)
Rand, A. Stanley
Clutch and Egg Size in Brazilian Iguanid Lizards ---- 171
Reproductive Biology of Reptiles: Proceedings of a Symposium ---- 1
Saint Girons, Hubert
Reproductive Cycles of Male Snakes and Their Relationships with Climate and Female Reproductive Cycles ---- 5
Schmajuk, Nestor A. and Enrique T. Segura
Behavioral Regulation of Water Balance in the Toad *Bufo arenarum* ---- 296
Schwartz, Joshua J. (see Wells, Kentwood D.)
Schwenk, Kurt, Stanley K. Sessions, and Denise M. Peccinini Seale
Karyotypes of the Basiliscine Lizards *Corytophanes cristatus* and *Corytophanes hernandesii*, with Comments on the Relationship between Chromosomal and Morphological Evolution in Lizards ---- 493
Seale, Denise M. Peccinini (see Schwenk, Kurt)
Segura, Enrique T. (see Schmajuk, Nestor A.)
Sessions, Stanley K. (see Schwenk, Kurt)
Sheldon, Andrew L. (see Daugherty, Charles H.)
Statement of Ownership, Management and Circulation ---- 540
Summary of Business Conducted at the Annual Meeting of The Herpetologists' League ---- 541
Sweet, Samuel S.
A Distributional Analysis of Epigean Populations of *Eurycea neotenes* in Central Texas, with Comments on the Origin of Troglobitic Populations ---- 430
Thomas, Robert A. (see Dixon, James R.)
Tilley, Stephen G., Barbara L. Lundrigan, and Lincoln P. Brower
Erythrism and Mimicry in the Salamander *Plethodon cinereus* ---- 409
Tinkle, Donald W. (see Congdon, Justin D.)
Topical Index for Volume 38 ---- 557
Torrance, Pam (see Johnson, Leslie F.)
Van Devender, Robert Wayne
Comparative Demography of the Lizard *Basiliscus basiliscus* ---- 189
Vitt, Laurie J. and Holly J. Price
Ecological and Evolutionary Determinants of Relative Clutch Mass in Lizards ---- 237
Vogt, Richard C. and James J. Bull
Temperature Controlled Sex-Determination in Turtles: Ecological and Behavioral Aspects ---- 156

Wake, David B. and James F. Lynch
Evolutionary Relationships among Central American Salamanders of the *Bolitoglossa franklini* Group, with a Description of a New Species from Guatemala 257
Wake, David B. (see Hanken, James)
Webb, Robert G. (see Bezy, Robert L.)
Wells, Kentwood D. and Joshua J. Schwartz
The Effect of Vegetation on the Propagation of Calls in the Neotropical Frog *Centrolenella fleischmanni* 449
Wiley, John E.
Chromosome Banding Patterns of Treefrogs (Hylidae) of the Eastern United States 507
Xavier, Francoise
Progesterone in the Viviparous Lizard *Lacerta vivipara*: Ovarian Biosynthesis, Plasma Levels, and Binding to Transcortin-Type Protein during the Sexual Cycle 62
Zug, George R., Margaret M. Barber, and Joan C. Dudley
Gonadal Histology and Reproduction in *Carlia bicarinata* (Scincidae, Sauria, Reptilia) of the Port Moresby Area, Papua New Guinea 418